	Application No.	Applicant(s)	
Notice of Allowability	10/729,055	VOELLER ET AL.	
	Examiner	Art Unit	
	Madeline Gonzalez	2859	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is second and MPEP 1308.	n this application. If not included unication will be mailed in due co	urse. THIS
1. This communication is responsive to <u>amendment filed on</u>	<u>23 January 2004</u> .		
2. The allowed claim(s) is/are 23-30.			
3. \boxtimes The drawings filed on <u>05 December 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority documents hav International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicatio	on No	n from the $\sqrt{}$
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	a reply complying with the requi	rements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	nitted. Note the attached EXA ves reason(s) why the oath o	AMINER'S AMENDMENT or NOT r declaration is deficient.	TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Review	v (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on to the header according to 37 CF	he drawings in the front (not the barrent).	ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	OSIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Not DLOGICAL MATERIAL.	te the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application (PTO-	152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No. 08), 7. 🗌 Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🖂 Examiner's	Statement of Reasons for Allows	ance
of Biological Material	9.		

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Claim 23 is allowed because the prior art of record does not show or suggest a method for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly including the steps of: calculating an offset angle using first and second measurements of at least one alignment angle, said offset angle representative of an angle variation between a wheelmounted sensor angle measurement and a vehicle wheel hub assembly-mounted sensor angle measurement, and subtracting said calculated offset angle from at least one predetermined specification value for said at least one alignment angle to offset said specification value, wherein one or more subsequent vehicle wheel hub assembly-mounted sensor angle measurements of said at least one alignment angle may be compared with said offset specification value to determine a required wheel alignment adjustment, in combination with the remaining limitations in the claim.

Claim 24 is allowed because the prior art of record does not show or suggest a method for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly including the steps of: calculating an offset angle using a wheel-off measurement of at least one alignment angle and at least one subsequent wheel-off measurement, said offset angle representative of an angle alteration to said at least one alignment angle, and utilizing said calculated offset angle to determine a necessary alignment angle adjustment, in combination with the remaining limitations in the claim.

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Claims 25-27 are allowed due to their dependency on claim 24.

Claim 28 is allowed because the prior art of record does not show or suggest a method for measuring at least one vehicle wheel alignment angle from a vehicle wheel hub assembly including the steps of: calculating an offset angle representative of an angle variation between an angle measurement acquired by a sensor coupled to a wheel rim and tire assembly and an angle measurement acquired by said sensor coupled to said wheel hub assembly, and utilizing said calculated offset angle to present angle measurements acquired by said sensor coupled to said wheel hub assembly to an operator in such a manner so as to appear as if obtained by a sensor coupled to said wheel rim and tire assembly, in combination with the remaining limitations in the claim.

Claim 29 is allowed because the prior art of record does not show or suggest a method for adjusting at least one vehicle wheel alignment angle on a vehicle including a wheel rim and tire assembly secured to a wheel hub assembly, including the steps of: calculating an offset angle between first and second measurements of at least one alignment angle, utilizing said offset angle with said second measurement and any subsequent measurements of said at least one alignment angle obtained by a wheel alignment sensor coupled to an adapter to obtain a current representative measurement of said vehicle wheel alignment angle, and utilizing said current representative measurement of said vehicle wheel alignment angle to facilitate guiding an

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operator in adjusting said at least one alignment angle, in combination with the remaining

limitations in the claim.

Claim 30 is allowed because the prior art of record does not show or suggest a method for

adjusting at least one vehicle wheel alignment angle on a vehicle including a wheel rim and tire

assembly secured to a wheel hub assembly, including the steps of: calculating an offset angle

between first and second measurements of at least one alignment angle, utilizing said offset

angle to obtain a corrected measurement for said at least one alignment angle, and comparing a

predetermined specification value for said at least one alignment angle with said corrected

measurement for said at least one alignment angle to identify a necessary alignment angle

adjustment required to alter said alignment angle, in combination with the remaining limitations

in the claim.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

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2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Madeline Gonzalez whose telephone number is (571) 272-2243.

The examiner can normally be reached on Monday-Friday (8:00-5:30), alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Diego F.F. Gutierrez can be reached on (571) 272-2245. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MG

Diego F.F. Gutierrez Supervisory Patent Examiner Technology Center 2800

CHRISTOPHER W. FULTON PRIMARY EXAMINER

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